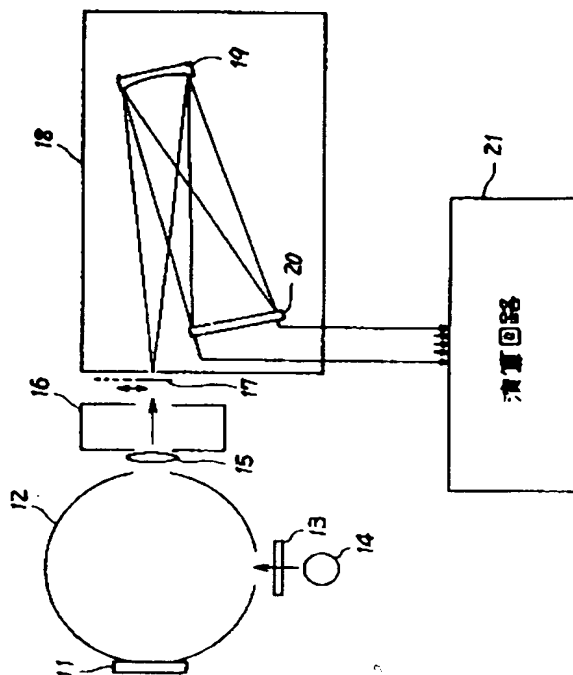


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 APPLICATION NUMBER : 59235599
 APPLICANT : CANON INC;
 INVENTOR : SASAKI TAKU;
 INT.CL. : G01J 3/51
 TITLE : MEASUREMENT OF OPTICAL DENSITY RELATING TO COLOR LIGHT



ABSTRACT : PURPOSE: To provide data for enable more accurate color reproduction to a field of color printing, by measuring optical density having a clear colorimetric definition.

CONSTITUTION: The reflected light of a specimen is incident to a spectroscopy 18 through a pervious specimen chamber 16 by the light from a light source 14. The spectroscopy 18 divides the reflected light into lights classified by wavelength component through a diffraction lattice 19 to allow said lights to irradiate a photodiode array 20. The reflectivity at every wavelength received by the photodiode array 20 is inputted to an operation circuit 21 and three stimulation values X, Y, Z are calculated according to JISZ8722. Further, the operation circuit 21 calculates the density value of each color from three stimulation values X, Y, Z according to a specific formula.

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